

## *Appendix C - 4*



*Air Environmental TLD Package*

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**Table C - 4.1**  
**Summary of 1997 Quarterly Averages of Off-site TLD Measurements**  
 $(mR \pm 3 SD/Quarter)$

Location Number*	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Location Average
DFTLD01	17±3.5	18±2.8	19±2.8	18±3.2	18±3.1
DFTLD02	16±2.7	15±2.3	20±3.1	19±3.2	18±2.8
DFTLD03	17±5.3	17±4.7	22±6.4	23±6.6	20±5.8
DFTLD04	17±4.7	44±15.2**	23±5.6	20±2.8	20±4.4
DFTLD05	14±3.4	19±3.1	18±3.6	21±3.9	18±3.5
DFTLD06	19±3.6	19±4.6	20±3.9	22±6.9	20±4.8
DFTLD07	14±2.8	16±5.4	16±4.7	20±4.7	17±4.4
DFTLD08	15±2.6	20±8.0	24±6.7	19±6.7	20±6.0
DFTLD09	16±3.2	14±2.2	21±4.0	22±3.8	18±3.3
DFTLD10	15±5.6	97±19.8**	22±3.5	18±4.5	18±4.5
DFTLD11	17±3.1	20±3.8	21±4.8	22±2.4	20±3.5
DFTLD12	18±5.2	18±7.8	19±4.5	22±5.9	19±5.9
DFTLD13	15±2.9	19±3.4	21±3.5	19±4.5	19±3.6
DFTLD14	17±2.8	17±2.1	20±2.2	22±5.3	19±3.1
DFTLD15	16±4.1	NA	18±4.2	23±4.6	19±4.3
DFTLD16	16±2.5	18±3.7	17±2.1	18±4.1	17±3.1
DFTLD17	16±3.4	44±15.2**	28±2.6	NR	22±3.0
DFTLD20	13±1.3	14±1.5	19±5.0	NR	15±2.6
DFTLD21	15±1.9	19±3.3	19±4.1	NR	18±3.1
DFTLD22	15±2.4	16±2.2	20±2.4	NR	17±2.3
DFTLD23	15±3.9	17±1.9	16±2.7	NR	16±2.8
DFTLD37	19±4.0	17±2.1	23±2.1	24±7.0	21±3.8
DFTLD41	21±7.8	13±3.6	15±3.5	16±3.7	16±4.7

\* Off-site locations are shown on Figures 2-14 (p. 2-27), A-7 (p. A-51), and A-9 (p. A-53). Background measurements are provided by off-site TLDs 17, 23, 37, and 41.

\*\* Although passing data validation acceptance criteria, these values are believed to be analytical outliers. Since no reasonable justification for these values can be found they have been excluded from calculations of the average.

NR - Not reported. These results have not been reported because the data validation process indicated the data were not reliable.

NA - Data not available. TLD missing.

**Table C - 4.2**  
**Summary of 1997 Quarterly Averages of On-site TLD Measurements**  
 $(mR \pm 3 SD/Quarter)$

<b>Location Number*</b>	<b>1st Quarter</b>	<b>2nd Quarter</b>	<b>3rd Quarter</b>	<b>4th Quarter</b>	<b>Location Average</b>
DNTLD18	26±4.2	26±3.1	35±4.1	NR	29±3.8
DNTLD19	17±2.7	22±8.0	21±5.2	NR	20±5.3
DNTLD24	641±30.4	677±4.9	692±28.4	NR	670±21
DNTLD25	23±5.7	19±2.8	24±3.5	23±2.9	22±3.7
DNTLD26	20±2.8	26±4.9	22±3.1	25±6.4	23±4.3
DNTLD27	15±3.9	20±9.5	18±1.6	20±4.9	18±5.0
DNTLD28	19±3.2	19±2.4	24±5.9	20±1.2	21±3.2
DNTLD29	19±2.9	18±2.1	21±3.6	25±1.0	21±2.4
DNTLD30	16±1.3	18±2.2	22±2.3	21±4.9	19±2.7
DNTLD31	17±2.5	17±1.7	17±4.9	19±2.2	18±2.8
DNTLD32	26±6.8	28±2.2	33±3.6	30±5.2	29±4.5
DNTLD33	28±3.3	29±3.8	33±7.2	33±4.7	31±4.8
DNTLD34	53±3.9	51±2.3	58±5.0	61±8.0	56±4.8
DNTLD35	76±5.0	75±4.5	80±9.4	81±4.8	78±5.9
DNTLD36	31±4.0	33±3.8	45±5.8	43±7.7	38±5.3
DNTLD38	32±4.8	27±2.4	32±3.8	35±9.4	32±5.1
DNTLD39	45±5.1	53±11.5	50±6.7	50±6.6	50±7.5
DNTLD40	133±9.4	132±8.5	132±9.7	123±13.4	130±10.3
DNTLD42	76±4.0	73±2.3	68±3.3	83±4.5	75±3.5
DNTLD43	25±4.4	27±3.0	31±3.7	30±3.6	28±3.7

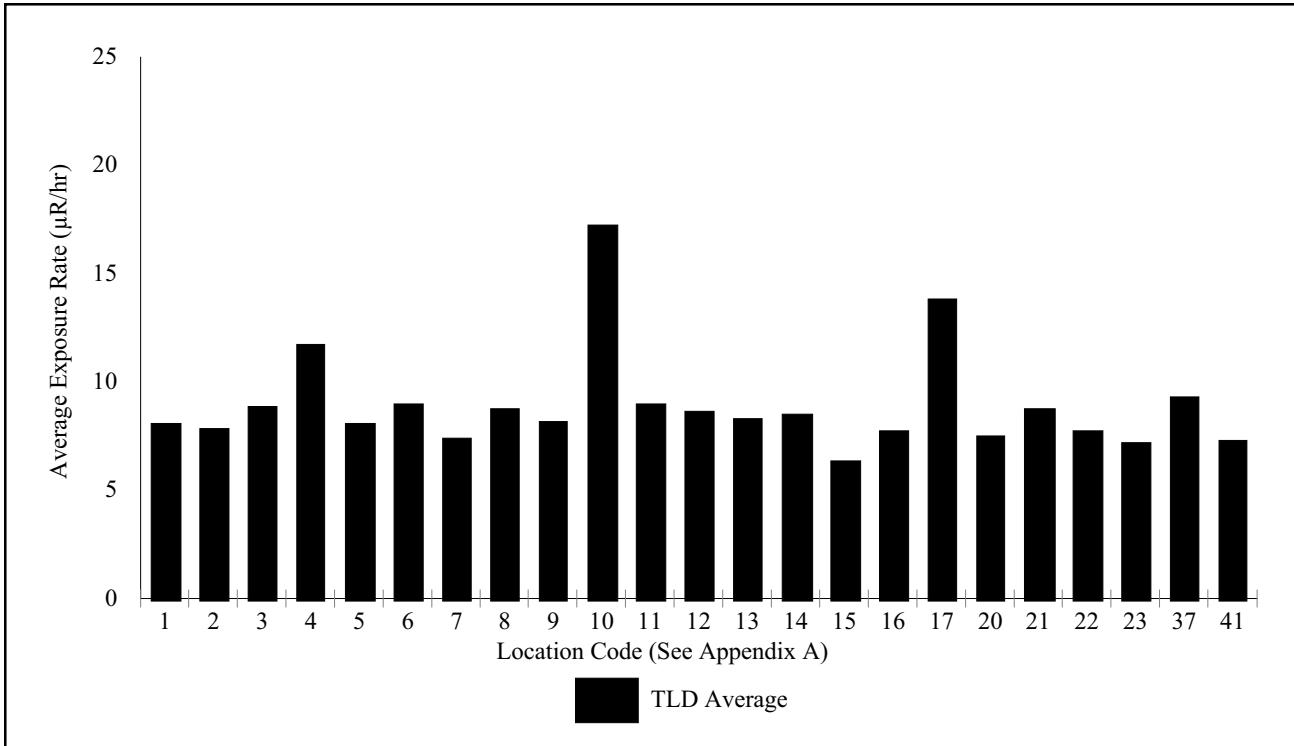
\* On-site locations are shown on Figures 2-13 (p. 2-26) and A-8 (p. A-52).

NR - Not reported. These results have not been reported because the data validation process indicated the data were not reliable.

**Table C - 4.3**

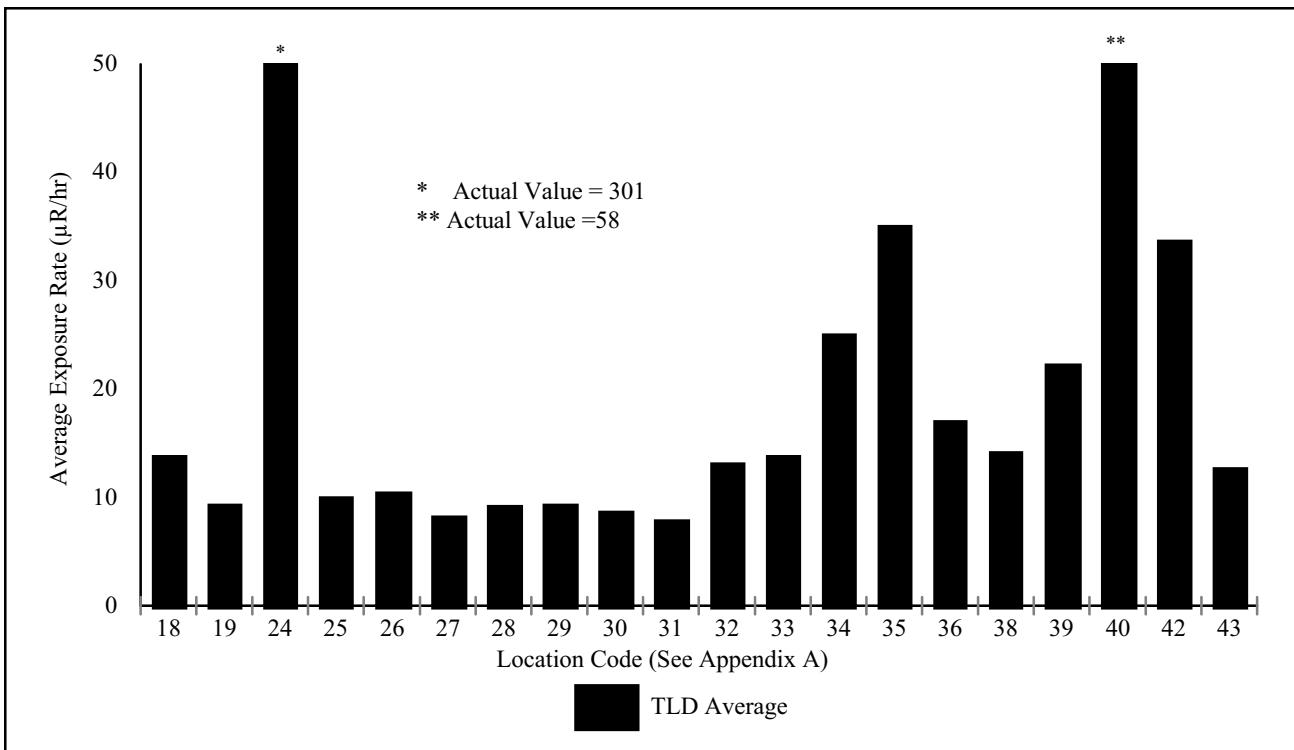
**3rd Quarter 1997 TLD Results and Instantaneous Dose Readings with a High-pressure Ion Chamber (HPIC) at Each Monitoring Location**

<i>Off-site Location Number</i>	<i>3rd Quarter TLD Result (<math>\mu\text{R}/\text{hr}</math>)</i>	<i>August 1997 HPIC Results (<math>\mu\text{R}/\text{hr}</math>)</i>	<i>On-site Location Number</i>	<i>3rd Quarter TLD Result (<math>\mu\text{R}/\text{hr}</math>)</i>	<i>August 1997 HPIC Results (<math>\mu\text{R}/\text{hr}</math>)</i>
DFTLD01	8.43	9.78	DNTLD18	15.55	17.24
DFTLD02	8.87	9.44	DNTLD19	9.33	11.52
DFTLD03	9.76	8.61	DNTLD24	307.39	332.62
DFTLD04	10.20	9.02	DNTLD25	10.64	12.69
DFTLD05	7.99	9.72	DNTLD26	9.77	13.70
DFTLD06	8.87	9.53	DNTLD27	8.00	9.74
DFTLD07	7.10	8.34	DNTLD28	10.66	10.49
DFTLD08	10.65	8.76	DNTLD29	9.33	10.60
DFTLD09	9.32	9.04	DNTLD30	9.76	11.58
DFTLD10	9.76	9.47	DNTLD31	7.55	9.84
DFTLD11	9.32	9.90	DNTLD32	14.66	12.12
DFTLD12	8.41	9.41	DNTLD33	14.66	16.89
DFTLD13	9.30	9.22	DNTLD34	25.76	28.91
DFTLD14	8.85	8.50	DNTLD35	35.55	43.83
DFTLD15	7.97	8.54	DNTLD36	19.99	21.84
DFTLD16	7.52	8.82	DNTLD38	14.21	17.85
DFTLD17	12.42	8.63	DNTLD39	22.21	25.33
DFTLD20	8.42	9.24	DNTLD40	58.63	79.08
DFTLD21	8.43	9.21	DNTLD42	30.21	32.23
DFTLD22	8.87	9.92	DNTLD43	13.77	14.63
DFTLD23	7.10	9.32			
DFTLD37	10.20	9.61			
DFTLD41	6.65	8.91			



**Figure C - 4.1**

**1997 Average Quarterly Gamma Exposure Rates around the West Valley Demonstration Project Site**



**Figure C - 4.2**

**1997 Average Quarterly Gamma Exposure Rates on the West Valley Demonstration Project Site**